

REMARKS

Favorable reconsideration of this application as presently amended and in light of the following discussion is respectfully requested.

Claims 1-3 and 24 are pending in the present application with claims 1 and 24 having been amended by the present amendment.

In the outstanding Office Action, claims 1-3 and 24 were rejected under 35 U.S.C. § 103(a) as unpatentable over Gordon et al. in view of Niiijima et al. and Barton et al., which is respectfully traversed.

Amended independent claim 1 includes a combination of features and is directed to a method for supporting a picture-in-picture (PIP) type time shifting including receiving a plurality of live broadcasting programs through a broadcasting network and displaying the respective live broadcasting programs through a PIP structure on a screen, selecting, by an end user, one of the displayed plurality of live broadcasting programs and displaying the selected one of the broadcasting programs on the screen, launching a time shifting application for the selected one of the displayed plurality of live broadcasting programs through starting a time-shifting function by an end user, storing in a storage section the live broadcasting program selected by the end user, and displaying through the PIP structure on the screen at least one of the live broadcasting programs simultaneously together with the broadcasting program stored by the time-shifting function. Further, the broadcasting program displayed after being stored has a time interval from the currently received live broadcasting program, the time interval is controlled by the time shifting function in accordance with a volume of the stored broadcasting program in the storage section and the time-shifting function includes at least one of a fast rewind, rewind, stop, pause

playback and high-speed playback. Amended independent claim 24 includes similar features in a varying scope.

These features are supported at least by Figs. 1 and 2. For example, as shown in FIG. 1, a plurality of live broadcasting programs 11-14 is received through a broadcasting network and the respective live broadcasting programs are displayed through a PIP structure on a screen. Then, one of the displayed plurality of live broadcasting programs 11 is selected by an end user, and is displayed on the screen. Further, a time shifting application for the selected one of the displayed plurality of live broadcasting programs is launched through starting a time-shifting function by an end user (see page 7, lines 9-13). Then, the live broadcasting program selected by the end user is stored in a storage section 70, and at least one of the live broadcasting programs 31-34 is displayed through the PIP structure on the screen simultaneously together with the broadcasting program 31 stored by the time-shifting function. In addition, the broadcasting program displayed after being stored has a time interval from the currently received live broadcasting program, the time interval is controlled by the time shifting function in accordance with a volume of the stored broadcasting program in the storage section and the time-shifting function includes at least one of a fast rewind, rewind, stop, pause playback and high-speed playback (see page 7, lines 13-18, and page 8, lines 4-7).

The Office Action relies on a combination of Gordon et al., Niiijima et al. and Barton et al. to produce the claimed invention. In more detail, the Office Action relies on Gordon et al. for time-shifting a selected broadcast program, relies on Niiijima et al. as displaying live broadcast programs together with time-shifted broadcast programs, and relies on the new reference by Barton et al. as teaching a video playback system to provide time-shifting or trick-play methods.

Amended independent claim 1 teaches displaying one stored live broadcasting program (time-shifted) along with other live broadcasting programs. According to amended independent claim 1, when an end user selects one of the live broadcasting programs, a time shift application for the selected live broadcasting programs is launched and the live broadcasting program is stored in a storage section. Then, the selected live broadcasting program is displayed through the PIP structure after being stored. In this instance, all of the displayed broadcast programs are live broadcasting programs, wherein one of the live broadcasting programs is the selected live broadcasting program which is time-shifted. None of the references teach or suggest displaying multiple live broadcasting programs, wherein one of the multiple live broadcasting programs is time-shifted after an end user selection. Further, the references fail to teach or suggest that the broadcasting program displayed after being stored has a time interval from the currently received live broadcasting program, the time interval is controlled by the time shifting function in accordance with a volume of the stored broadcasting program in the storage section and the time-shifting function includes at least one of a fast rewind, rewind, stop, pause playback and high-speed playback.

Accordingly, it is respectfully submitted independent claims 1 and 24 and each claim depending therefrom are allowable.

CONCLUSION

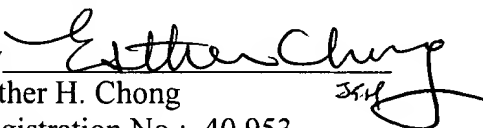
In view of the above remarks, it is believed that the claims clearly distinguish over the patents relied on by the Examiner. In view of this, reconsideration of the rejection and allowance of all of the claims are respectfully requested.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact Jun S. Ha (Reg. # 58,508) at telephone number (703) 205-8072, which is located in the Washington, DC area.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

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Respectfully submitted,

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